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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,026	07/27/2000	Ashok Sengupta	54942USA4A.002	9991
32692 75	90 04/19/2004	•	EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY			LEVY, NEIL S	
PO BOX 33427 ST. PAUL, MN			ART UNIT	PAPER NUMBER
51.11(6E, 141(55155 5 .2)			1616	
			DATE MAILED: 04/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/626,026	SENGUPTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Neil Levy	1616				
The MAILING DATE of this communication	appears on the cover sheet	with the correspondence address				
Period for Reply	-1					
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of to dwill apply and will expire SIX (6) M tute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17	February 2004.					
	his action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,17,18 and 41-48</u> is/are pending i	n the application					
4a) Of the above claim(s) is/are without	• •					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,17,18,41-48</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Exam	inor					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
·						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	Examiner. Note the attach	ed Office Action of form F10-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	gn priority under 35 U.S.C	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		o(s)/Mail Date Informal Patent Application (PTO-152)				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/t Paper No(s)/Mail Date	08) 5)					
U.S. Patent and Trademark Office	, 					
PTOL-326 (Rev. 1-04) Office	Action Summary	Part of Paper No./Mail Date 1				

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Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Please remove the "eg" and insert hydroxyalkyl in claim 18 to properly define substituents.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 41-43, 45, 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Vandegaer et al 4110286.

Terminal quaternary ammonium groups may be added to polyurethane, chain extended as desired (col 6-8) as showat formula 6. Self supporting films are shown-the film, dry stripped from the plate (col.14, lines 13-19). Emulsifying in water (col.2, lines 19-29) then permits coating of substrates, polymeric, textiles, metal, wood, and fibers, the paper, felt of claim 43 (col.18, lines 35-41). Since the composition disclosed is that instantly claimed, the characteristics; antimicrobial and effective against alage; are also the same.

Claims 1, 17, 18, 41-44, 46, 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Imazato et al 5408022.

Polyisocyanate and polyactive H monomers forming polyurethane polymers (col.8) are end capped with quaternary antimicrobial groups (col.4) including the instant claim 18 groups, linked through a vinyl group. The antimicrobial group may be as little as 0.01% of the polymer composition (col.6, line11, line 44, col.7) and are used as

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medical articles, films, coatings, fibers. The instant open claim language requires polyurethane desired from monomers designated generally, but does not exclude other monomers as part of the polymer, thus, the Imazato polymer formed with hydroxy methacrylate monomer is not precluded.

Applicant's arguments with respect to claims 1, 17, 18, 41-48 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neil Levy whose telephone number is 571-272-0619. The examiner can normally be reached on Tuesday through Friday from 7a.m to 5:30p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page, can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NEIL S. LEVY PRIMARY EXAMINER